MHQ File

FOREIGN BROADCAST INFORMATION SERVICE
P. O. Box 2604
Washington, D. C. 20013

MHQ-7039/87
11 June 1987

MEMORANDUM FOR: Chief, London Bureau

THROUGH: Chief, Engineering Support Group
Chief, Operations Group

FROM: [redacted] STAT
Chief, Advanced Development Division

SUBJECT: Draft FBIS-BBC Memorandum of Understanding on Modernization System Interfaces

1. Attached is draft memorandum of understanding between FBIS and BBC which outlines proposed interfaces between our respective modernization systems (Attachment A). This will form the basis of our discussions with the BBC in July. We have also included some more specific agenda items for the meeting (Attachment B).

2. Also attached for your information are our latest power and cooling requirements (Attachment C). Please do not consider these to be cast in concrete; however, if you need something for planning purposes, use these. We can discuss these further in July.

3. Should you or the BBC need additional information or clarification before our July meeting, please contact us.

[redacted] STAT

Attachments

DDS&T/FBIS/ESG/ADD/[redacted] (27May87) STAT

Distribution:
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MEMORANDUM OF UNDERSTANDING

DRAFT

FBIS 0000/87
2 June 1987

Technical Memorandum of Understanding for the Automated Interfaces Between the BBC Monitoring Service and FBIS London Bureau

1. This memorandum documents the planned interfaces between the modernized BBC Monitoring Service and the FBIS London Field Bureau Automation (FBA).

2. There will be two mutually exclusive interfaces between BBC and London Bureau. One interface will be BBC to FBIS and the other will be FBIS to BBC. Both interfaces are passive, one-way transmissions with no interaction with the host systems except for the x-on/x-off protocol. Procedures for message accountability and retransmission for both systems are TBD.

3. BBC to FBIS Interface

The BBC interface to FBIS will be implemented in two phases. The first phase will occur before FBA is implemented and will provide FBIS with six terminals and two printers on the BBC system (depicted in Attachment A). The second phase will take place when FBA is installed and the two printers are replaced with two serial interface devices (see Attachment B). The second printer channel is for redundancy; data should be received on one of the two lines but not both. Retransmission, if required, will be initiated from one of the BBC terminals.

4. The following characteristics are expected of the BBC to FBIS interface:

a) RS-232
b) Asynchronous
c) Serial data
d) ASCII (seven data bits plus parity bit)
e) Message format (TBD)
f) Data rate 9600 bps (bits per second) or 19.2 K bps
g) Flow control using x-on/x-off protocol

5. FBIS to BBC Interface

Prior to the installation of FBA, the bureau will continue the existing system for message delivery to the BBC (see Attachment C). The format of the data received from AUTODIN will appear the same to BBC after FBA as it was prior to FBA; i.e., transition from the AUTODIN "black box" tap to FBA should be transparent to BBC.

6. FBA will provide two printer interfaces which will match in type and speed (TBD) the printer interface currently provided to BBC by FBIS (see Attachment D). Two ports are suggested (one for redundancy) to be symmetric with respect to the BBC to FBA interface. Again, data would be transferred from FBA to BBC via one of the two lines but not both. Any loss of data due to a communications problem will be recovered by retransmission (manually initiated) of the data after communications have been restored.

7. The following characteristics are expected of the FBIS to BBC interface:

a) RS-232
b) Asynchronous
c) Serial data
d) ASCII (seven data bits plus parity bit)
e) AUTODIN format for communications header and trailer, FBIS message format as defined by LEC in memorandum dated 23 March 1987.
f) Data rate of 9600 bps or 19.2 K bps (TBD)
g) Flow control using x-on/x-off (TBD)

8. Concept of Operations

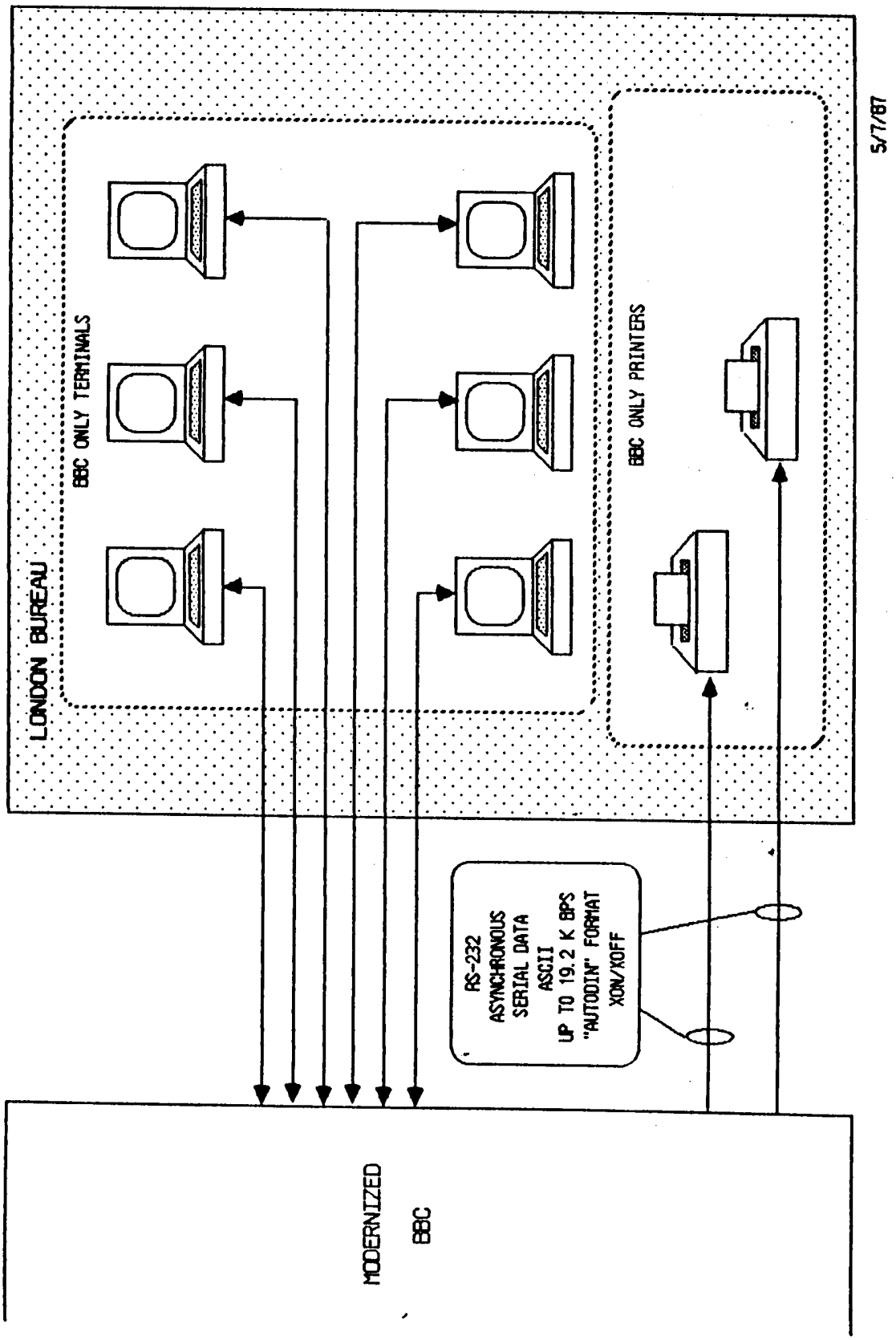
A concept of operations (CONOPS) will be developed to cover operational procedures associated with the BBC interface with FBA and the FBA interface with BBC.

9. Updates to Memorandum

Any changes to this memorandum will be updated as required to reflect the interfaces between BBC and FBIS and the equipment to be installed by FBIS in modernizing its facility.

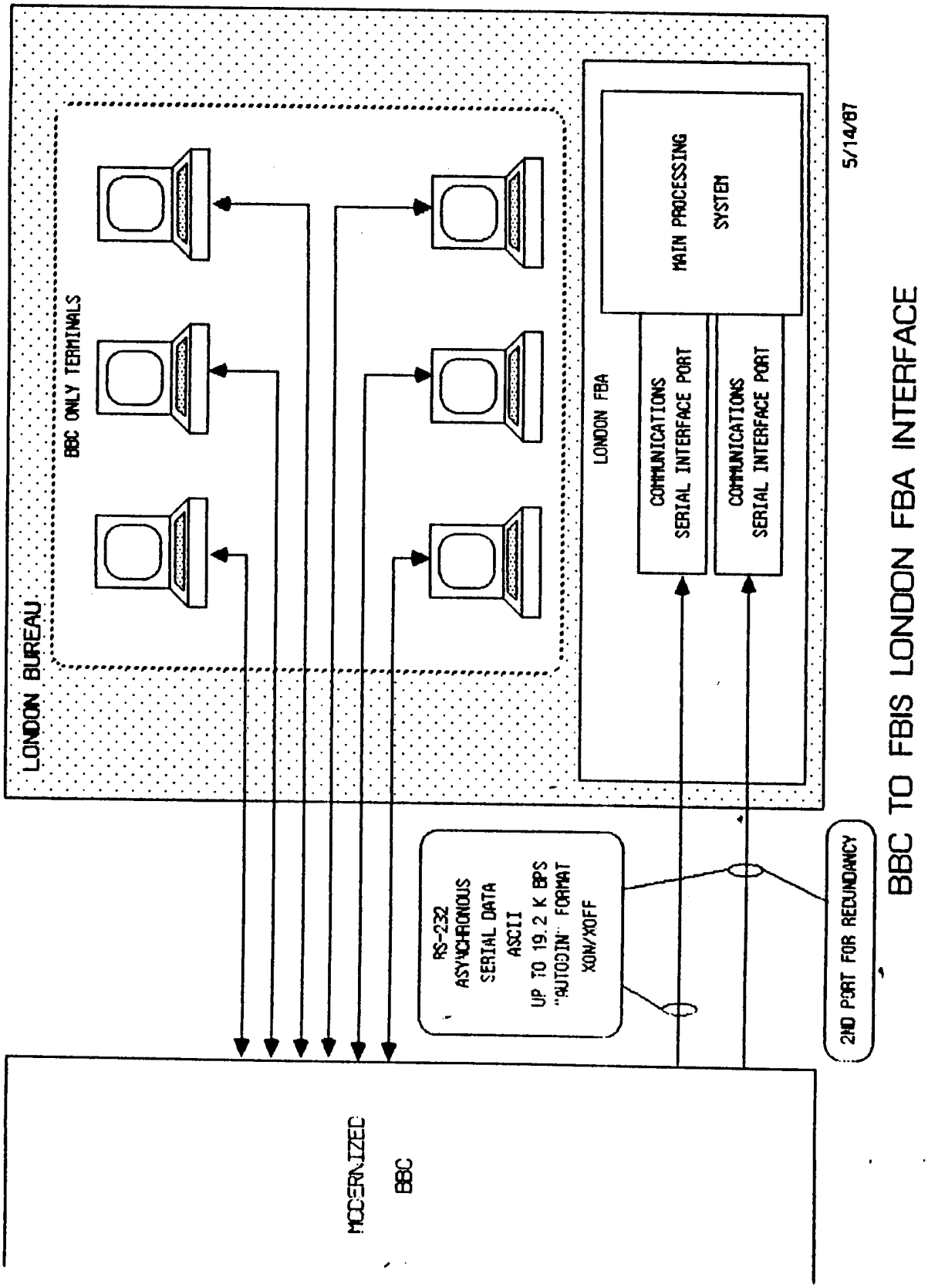
BBC	FBIS
BY: _____	BY: _____
TITLE: _____	TITLE: _____
DATE: _____	DATE: _____

ATTACHMENT A



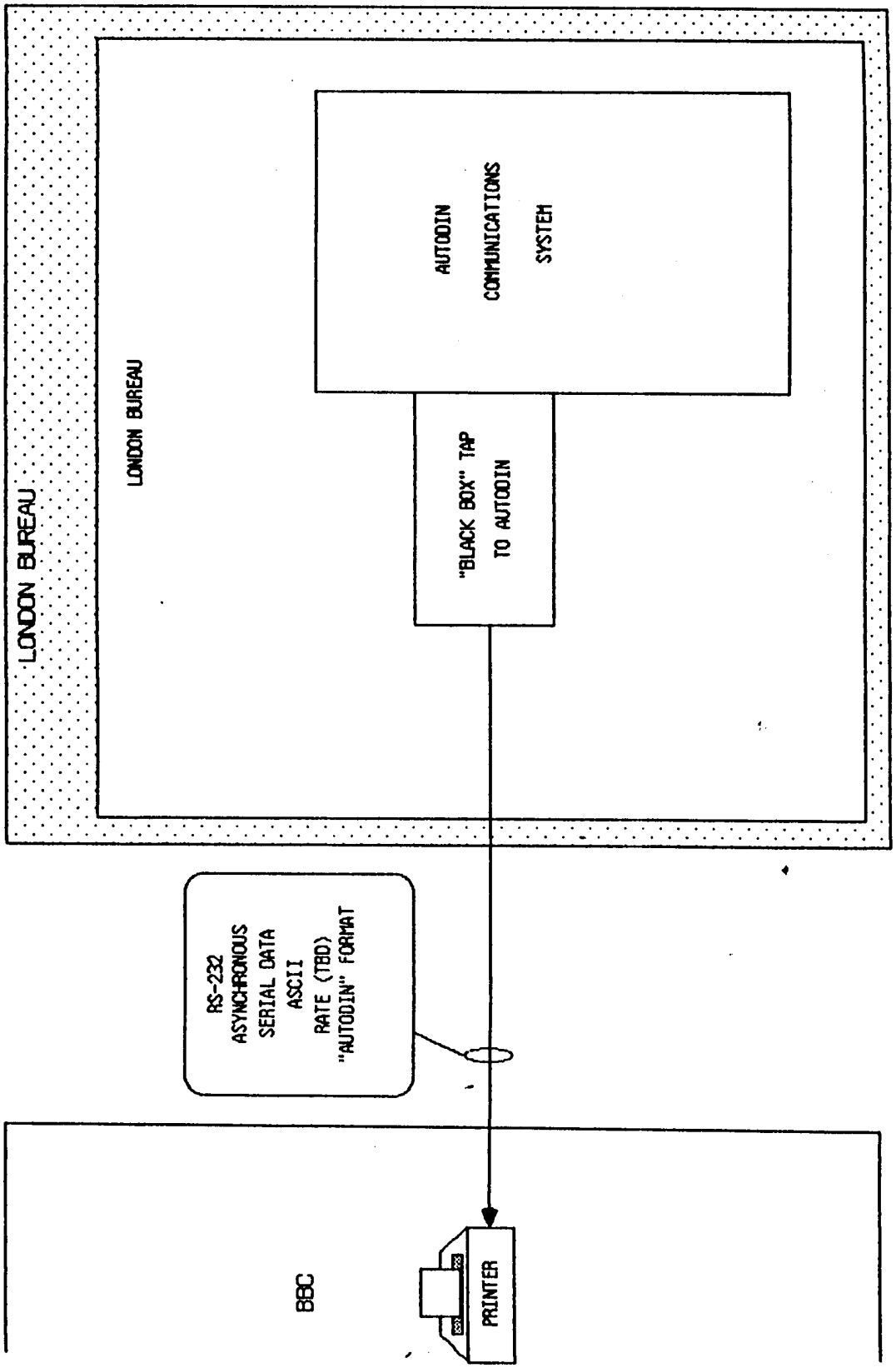
BBC TO FBIS LONDON BUREAU INTERFACE

ATTACHMENT B



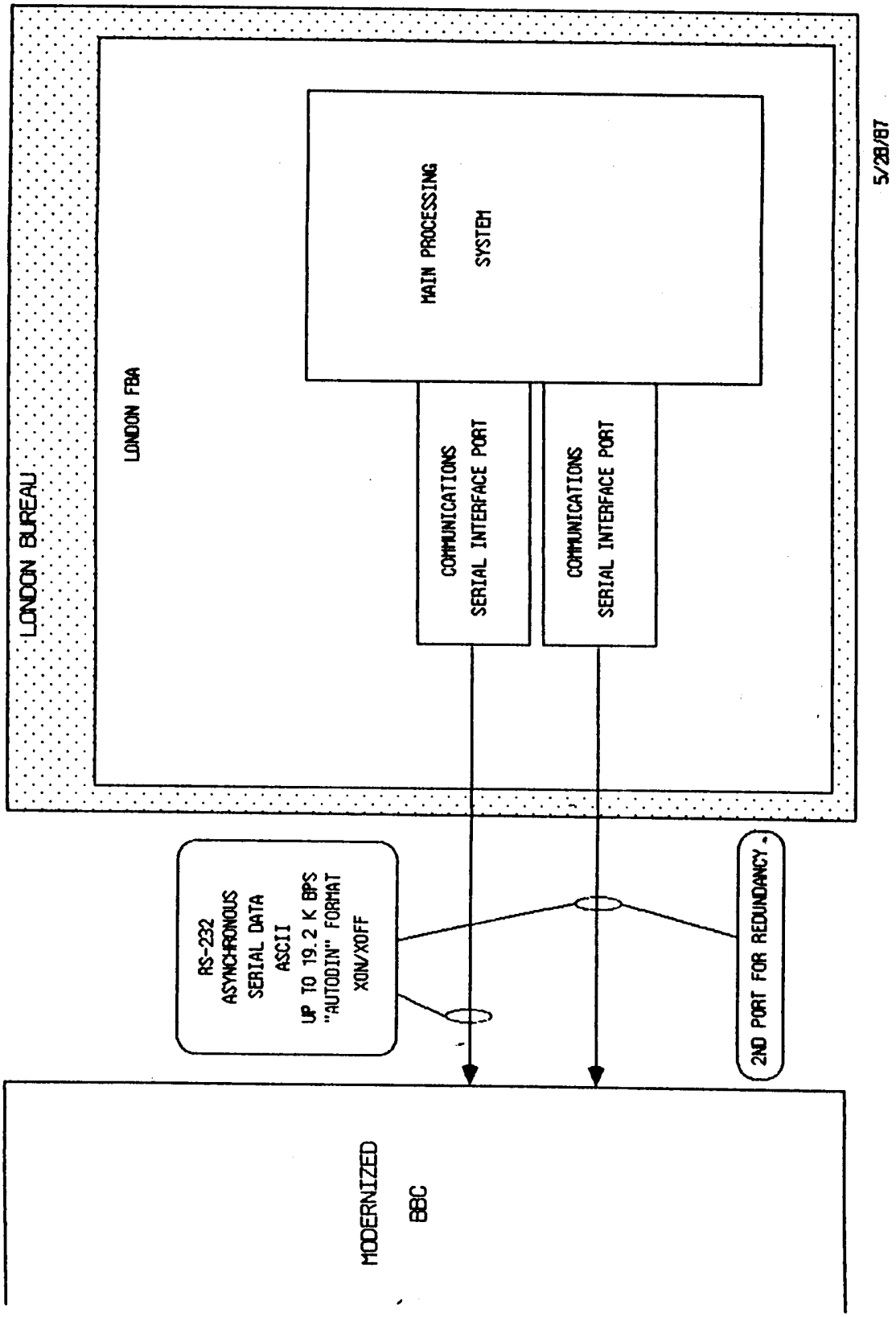
BBC TO FBIS LONDON FBA INTERFACE

ATTACHMENT C



EXISTING FBIS LONDON BUREAU TO BBC INTERFACE

ATTACHMENT D



FBIS LONDON FBA TO BBC INTERFACE

AGENDA ITEMS

FOREIGN BROADCAST INFORMATION SERVICE
P. O. Box 2604
Washington, D. C. 20013

MHQ-7040/87
3 June 1987

MEMORANDUM FOR: Chief, London Bureau

THROUGH: Chief, Engineering Support Group
Chief, Operations Group

FROM: [redacted] STAT
Chief, Advanced Development Division, ESG

SUBJECT: Agenda Items for the BBC/FBIS Meeting in July

1. This memorandum lists proposed agenda items for discussion during the next BBC/FBIS/LEC Technical Exchange Meeting (TEM) scheduled for around 20 July 1987. Some of these items are discussed in the FBIS-BBC Memorandum of Understanding (MOU) on Modernization System Interfaces dated 28 May 1987.

a. Characteristics of the current FBIS to BBC interface (reference paragraph 5 in MOU). Does BBC desire to continue the same interface that is currently being used? Once BBC modernizes, they may wish to have this interface match the type being supplied to FBIS.

b. BBC formats (reference paragraph 4 (e) in MOU)

c. Procedures for message accountability and retransmission (reference paragraph 2 in MOU)

d. Type of flow control to be used in the "printer" type interfaces being used i.e. x-on/x-off or READY/BUSY.

e. Differences in the U.S. and British ASCII character sets being used.

f. Upper/lower case or all upper case character transmissions and use of Pinkie coding.

g. Redundancy lines for interfaces.

h. The transmitted asynchronous word length to include start, stop bits, number of data bits, odd or even parity.

SUBJECT: Agenda Items for the BBC/FBIS Meeting in July

2. We are looking forward to the discussions in July and are hopeful that they will produce an understanding of all aspects of the interfaces.

STAT

MHQ-7040/87

SUBJECT: Agenda Items for the BBC/FBIS Meeting in July

DS&T/FBIS/ESG/ADD/SES [redacted] (03JUNE1987) STAT

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POWER AND COOLING REQUIREMENTS

10 June 1987

FBA Cooling and Power Requirements

1. Cooling Requirements

Cooling requirements for the FBA equipment have been estimated based on 46 workstations with monitors (includes bureau and PMU) and two laser printers. Calculations show the need for approximately 8.7 tons of additional air conditioning for all of the FBA equipment. This figure, however, is only accurate if the equipment is concentrated in one location. The plan is to distribute the equipment throughout the facility at the various work locations. The equipment being considered is designed to operate in an office environment with each work station consuming less than 300 watts of power and each laser printer using about 800 watts. The exact locations for the placement of the workstations as well as the number of people to operate them will be supplied.

Additional heat dissipation (cooling requirements) for the communications room where the two main processors, disk drives, and laser printers are expected to be located are approximately 7500 Btu/hr.

2. Power Requirements

Power requirements for the FBA equipment are 240 volts/50 Hz fed by a dedicated technical power feeder and distribution system, i.e. non-ADP equipment should not be plugged into these circuits. No special grounding requirements have been identified other than that provided by the ground associated with the power cord. The recommended power connector is NEMA #6-15R for 240 VAC/50 Hz. Voltage surge protectors are recommended for each work location.

3. UPS Requirements

One each 800 VA (volt-amp) UPS unit for each of the two the main processing system units.

4. Operating Environment

Operating temperatures and relative humidity requirements for the FBA equipment are as follows: Operating temperature 10°-32° C (50°-90° F), Relative Humidity 20% - 80% non-condensing.

5. Space Requirements

Space requirements for the FBA equipment are not a major factor as the individual work stations will reside with the operator at their desk. The other equipment will be located in the AUTODIN room with the communications equipment. The location of the two laser printers is TBD at this time.